

Concrete Construction: Prefabrication General Instructions (Precast/Prestress)

Scope Statement

Review contract drawings and special provisions, obtain required tests to compile a portfolio, and inspect fabricator's equipment and plant.

Procedure

QC/QA

1. Review the contract drawings and special provisions for any standard specification revisions, unusual design details, and/or any other changes that may affect structure fabrication.
2. Schedule a prefabrication conference to clarify specification and inspection requirements if the fabricator is new, the structure is unusual, or any particular specification question needs to be addressed.
3. Sample the following materials used that applies to the project and forward them to the Central Materials Laboratory for testing.
 - Prestress cable: One sample from each roll
 - Reinforcing steel: Three samples, 24 inches long, from each heat or size
 - Aggregates: Various samples of coarse and fine for gradation, as required
 - Elastomeric bearing pad: One sample of each size
 - Cement: Various samples, as required
4. Before fabrication, obtain the following that applies to project:
 - Approved shop drawings
 - Approved mix design
 - Approved cold weather concreting procedures(if necessary)
 - Test reports on prestress cable
 - Test reports on reinforcing steel
 - Test reports on cement
 - Test reports on elastomeric bearing pads
 - Approved cutting procedure
 - Test reports on coarse and fine aggregates
 - Certification of calibration on stressing jacks
 - Certification of calibration on batch plant scales
5. Prepare a P.G.I.R. for each girder in the structure, and note on the P.G.I.R. any unusual details to be monitored.
6. Compile a portfolio containing all required test results, certification, and P.G.I.R.s.
7. Inspect the Fabricator's shop equipment and physical plant. Carefully examine the condition of the forms and the bed, as well as the aggregate storage location and

procedures. Ensure that no contamination or segregation of aggregates will occur during storage or handling.

8. The Fabricator shall be fully certified by the Precast/Prestressed Concrete Institute.